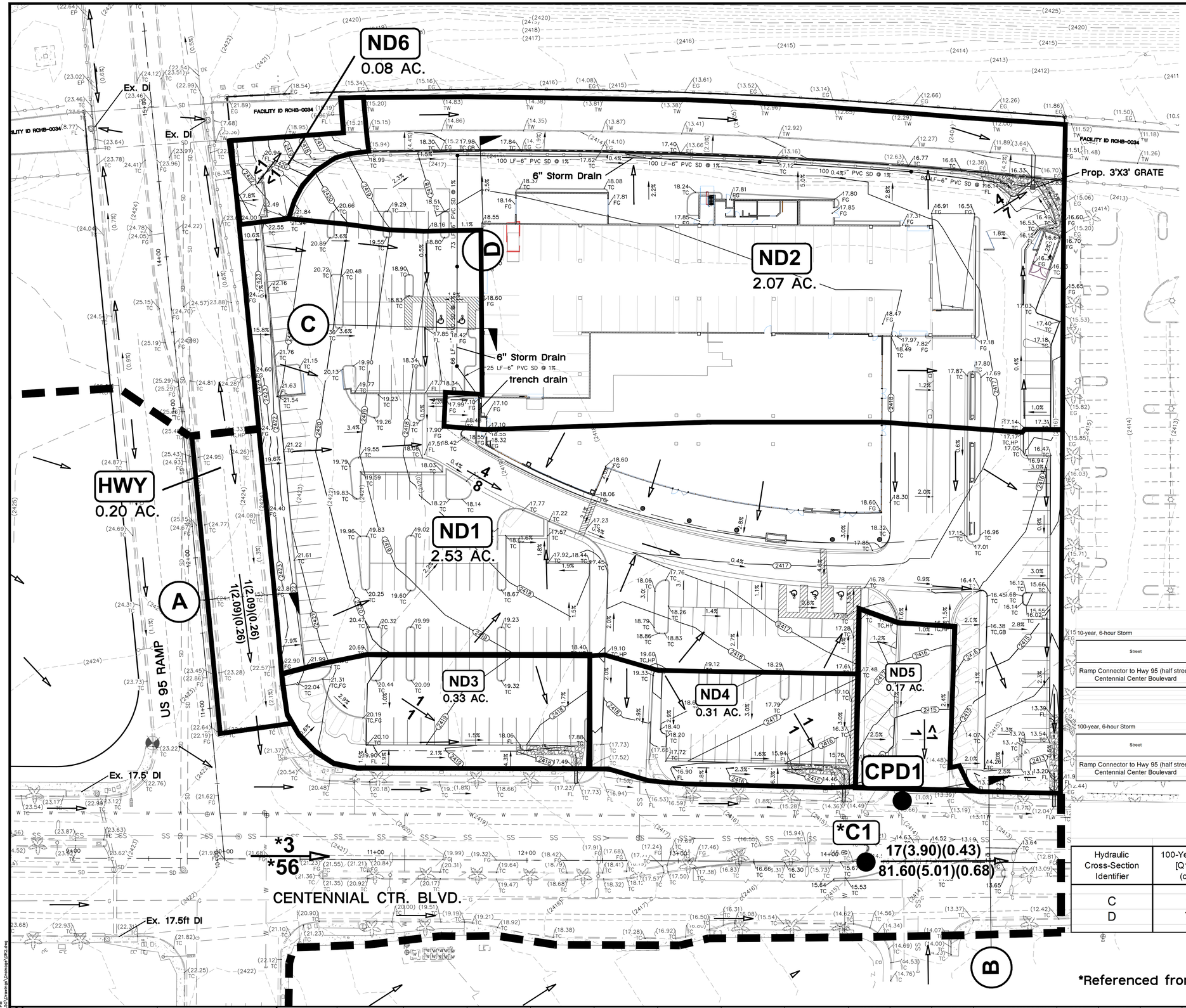

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

DRAINAGE LEGEND

ND1	DRAINAGE BASIN LABEL
● CMD1	CONCENTRATION POINT / COMBINATION POINT
	ONSITE BASIN BOUNDARY
	OFFSITE BASIN BOUNDARY
2 / 3	Q10 FLOW IN CFS (10 YR.) / Q100 FLOW IN CFS (100 YR.)
1 (1.0)(1.2) / 1 (1.0)(1.2)	Q10 (V10)(D10) / Q100 (V100)(D100)
	BASIN FLOW DIRECTION
1	HYDRAULIC CROSS-SECTION
	STORM DRAIN FLOW DIRECTION

Peak Flow Summary
Developed Condition

HEC-1 ID	Area (acres)	10-year Flow (cfs)	100-year Flow (cfs)	
HWY	0.20	<1	1	
ND1	2.53	4	8	
ND3	0.33	1	1	
ND4	0.31	1	1	
ND5	0.17	<1	1	
CPD1	-	6	11	(ND1+ND3+ND4+ND5)
ND6	0.08	<1	<1	
ND2	2.07	4	7	

Street Flow Summary
(Existing / Developed Condition)
10-year, 6-hour Storm

Street	Right of Way Width (ft)	Hydraulic Cross-Section Identifier	10-Year Flow [Q10] (cfs)	10-Year Velocity [v] (fps)	10-Year Flow Depth [d] (ft)	10-Year Velocity x Depth [v x d]	Dry Lane Width [v] x [d]
Ramp Connector to Hwy 95 (half street)	40	A	1	2.09	0.26	0.54	N/A
Centennial Center Boulevard	70	B	17	3.90	0.43	1.68	N/A

Street Flow Summary
(Existing / Developed Condition)
100-year, 6-hour Storm

Street	1/2 Right of Way Width (ft)	Hydraulic Cross-Section Identifier	100-Year Flow [Q100] (cfs)	100-Year Velocity [v] (fps)	100-Year Flow Depth [d] (ft)	100-Year Velocity x Depth [v x d]
Ramp Connector to Hwy 95 (half street)	40	A	1	2.09	0.26	0.54
Centennial Center Boulevard	70	B	81.6	5.01	0.68	3.41

On-site Sections
(Developed Condition)

Hydraulic Cross-Section Identifier	100-Year Flow [Q100] (cfs)	100-Year Velocity [v] (fps)	100-Year Flow Depth [d] (ft)	100-Year [v] x [d]
C	1	0.22	0.33	0.07
D	7	2.01	0.50	1.01

*Referenced from DS#2589

LEGEND

CL OR SURVEY LINE	EASEMENT LINE	DESCRIPTION:	BUILDING OUTLINE, EDGE OF PAVEMENT, "A" TYPE CURBS, "L" TYPE CURBS, WALLS, CONTOUR LINES, AC PAVEMENT, CONCRETE, SPOT ELEVATIONS, SIGNS, MANHOLE W/ DESCRIPTION
PROPERTY LINE	SAWCUT LINE	EXISTING:	
ROW LINE	SCARP LINE	PROPOSED:	

MANHOLE DESCRIPTIONS
(S) = SANITARY SEWER
(D) = STORM DRAIN
(E) = ELECTRICAL
(T) = TELEPHONE

FIRE HYDRANTS, GATE VALVES, REDUCERS, CLEAN OUTS, UTILITY BOX OR VAULT, 60' ROW LED STREETLIGHTS, 80' ROW LED STREETLIGHTS, 100' ROW LED STREETLIGHTS, INTERSECTION STREETLIGHTS

REV.:	DATE:	BY:	DESCRIPTION:

Lochsa engineering
6345 South Jones Blvd
Suite 100
Las Vegas, NV 89118
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Fax (702) 365-9317
www.lochsa.com

SHEET
ONSITE DRAINAGE MAP
INTERIM / DEVELOPED CONDITIONS

TITLE
CENTENNIAL SUBARU

PROJECT No.: 201057.5
DATE: 10/26/20
SCALE: 1"=30'
DRAWN BY: CB
DESIGNED BY: CB
CHECKED BY: CB

PROFESSIONAL ENGINEER — STATE OF NEVADA — GUY M. MORRIS — EXP. 12-31-21 — CIVIL — No. 14526

03/03/21

SHEET No.
DR2
SHEET 1 OF 2

3/3/2021 1:15 PM
J:\201057.5 Centennial Subaru\Drawings\Drainage\DR2.dwg